



DOON BHARTI PUBLIC SR. SEC. SCHOOL

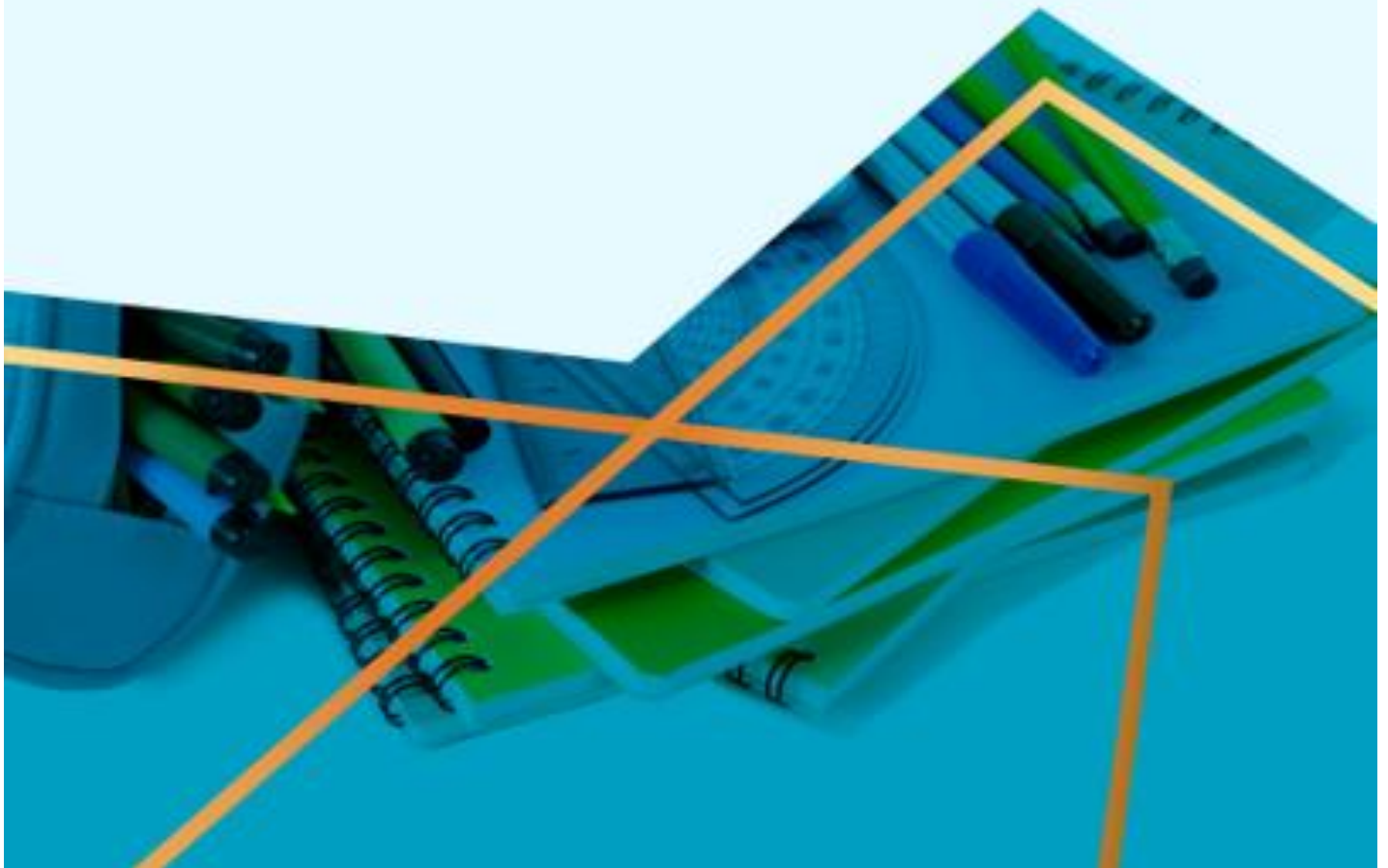
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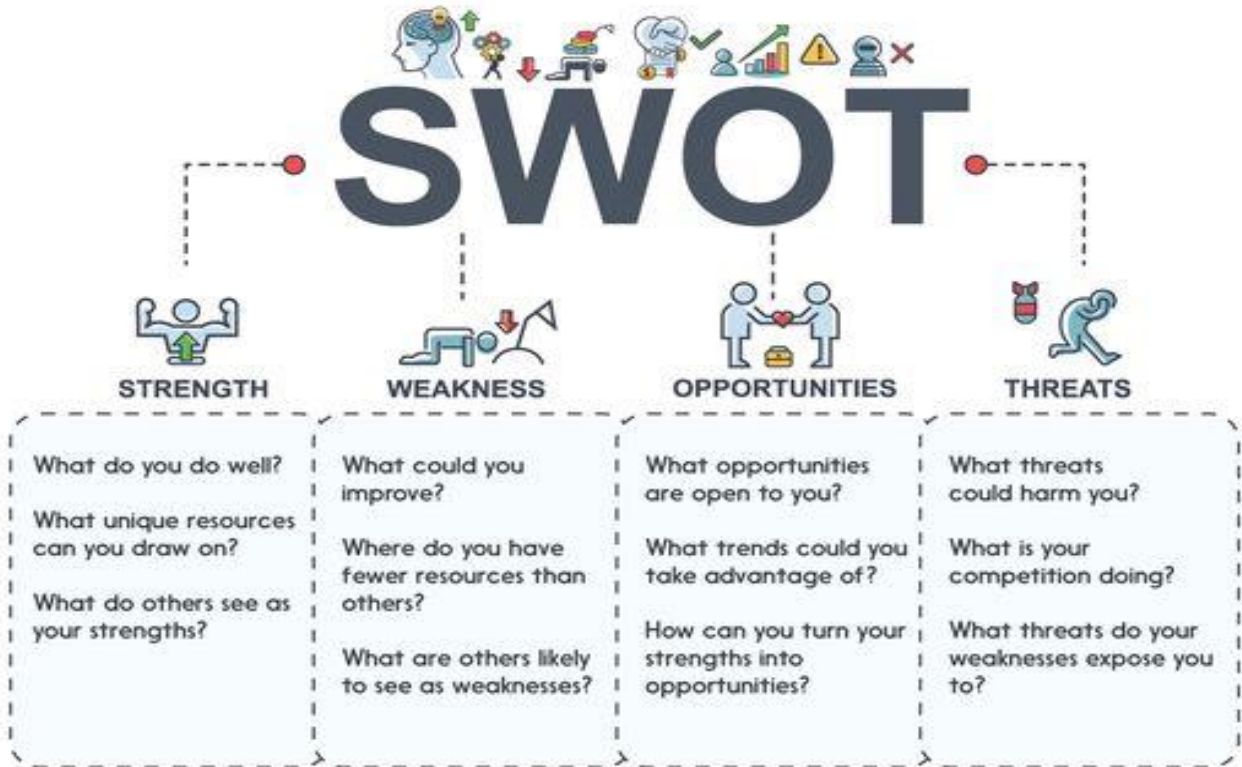
SUMMER HOLIDAY HOMEWORK

Academic Session: 2023 -24

Name: _____
Class: _____
Roll No.: _____



What Is SWOT Analysis?



TIME TO DO SWOT ANALYSIS OF YOUR OWN

SWOT ANALYSIS

 STRENGTHS	 WEAKNESSES	 OPPORTUNITIES	 THREATS

ENGLISH

To be done in Scrap Book

ENGLISH PROJECT FILE

Project Work + Viva: 6Marks, marks will be allotted for the project report/script /essay etc.

The Project file must include the following:

- Cover page, with title of project, school details/details of students.
- Statement of purpose/objectives/goals
- Certificate of completion under the guidance of the teacher.
- Action plan for the completion of assigned tasks.
- Materials such as scripts for the theatre/role play, questionnaires for interview, written assignments, essays, survey-reports and other material evidence of learning progress and academic accomplishment.
- The 800-1000 words essay/Script/Report.
- Student/group reflections.
- If possible, Photographs that capture the positive learning experiences of the student(s).
- List of resources/bibliography.

Assessment will be done on the basis of the following points-

- Quality of content of the project
- Accuracy of information
- Adherence to the specified timeline
- Content in respect of (spellings, grammar, punctuation)
- Clarity of thoughts and ideas
- Creativity
- Contributions by group members
- Knowledge and experience gained

Photographs supporting the project

LIST OF TOPICS/THEMES (Attempt any three topics)

THE LAST LESSON- War Predicament

- Linguistic chauvinism
- Importance of Language
- Globalization of Language
- Franco-Prussian War
- Historical References of Events where in linguistic identity was threatened/snatched
- Student Teacher Relationship

LOST SPRING-Child Labour

- Research and case study on life in a slum.
- Life of the people in a slum
- Education, Health and Infrastructure in slum areas
- Government Initiatives to improve the condition of slum people
- Role of youth in the upliftment of the weaker sections of the society
- Comparative Study of Slums
- Slums of yesterday turned to cities of today.

DEEP WATER-Hydrophobia

- Interview a diver or a swimmer
- Phobias and fears and how to overcome
- Psychological and emotional impact of phobias
- Impact on one's life and society
- Case Study

MY MOTHER AT SIXTY-SIX

- Explain the importance of parents in the family.
- On the context of the poem how do you love and care your mother?
- Collect data about condition of old age homes in our country, living condition there, number of old age homes.
- Old Age challenges

To be done in Note Book:

1. Write Notices on the following occasions (Any Two). (2marks)
 - a. Tours
 - b. Sports
 - c. Cultural / Extra- curricular activities
 - d. Lost & Found
 - e. Appeals
2. Write articles on the following topics Word-limit 150- 200(Any two) (2 marks)
 - a. My vision of future India
 - b. Digital education in India
 - c. Women safety in India
 - d. 50- years of Earth Day

Physics**(A) Notebook: (4 Marks)**

- 1) Derive the expression of Coulomb's Law in vector form
 - 2) Derive the expression Electric field on the axial line of Dipole.
 - 3) Derive the expression for electric field on the equatorial line.
 - 4) Derive the expression for Electric field inside, outside and on the surface of charged sphere.
 - 5) Derive the expression for energy stored in a capacitor.
 - 6) The space between the plates of capacitor C is filled with the dielectric slab of equal thickness find the new capacitance.
 - 7) The space between the plate of capacitor of capacitance C filled with the Conducting slab of equal thickness find the new capacitance.
 - 8) Find the equivalent capacitance in Parallel and in series.
 - 9) Can a metal sphere of radius 1 cm hold a charge of 1 coulomb? Justify your answer
- (B) Scrap Book Work:** Write all the Formula of Chapter 1 and Chapter 2 (Use colour pen) (2marks)
- (C) Project work (any one) (4 marks)**
1. Make project file on Electromagnetic waves and their uses.
 2. To study and compared to capacitor under series and parallel combination
 3. To study the working and application of galvanometer

Subject-Chemistry**(A)*In the Notebooks (2mark)**

1. Practice the balancing of ionic equations- oxidizing property of KMnO_4 and $\text{K}_2\text{Cr}_2\text{O}_7$ with KI ,Oxalic acid , NaNO_2 , FeSO_4 .
2. Do the numericals based on the colligative properties of chapter 1 from NCERT book.

(B) In Scrapbook (4marks)

Using thread ,colours, beads and Fevicol make the optical isomers of:- $[\text{Co}(\text{en})_2\text{Cl}_2]^+$ and $[\text{Pt}(\text{NH}_3)_4\text{Cl}_2]^+$.

(C) Project Work (4marks)

1. To study the green chemistry as an alternative tool for the reduction of pollution. [Roll no-1-5]
2. Study the quantity of casein present in the different samples of the milk. [Roll no-6-10]
3. Isomerism in the complex compound and importance in chemical industries. [Roll no-11-15]
4. Study the effect of metal coupling on the rusting of iron [Roll no -16-20]
5. colligative properties [Roll number 21 – 26]

paste the related to pictures in the project file

Subject – Biology**A. In The Notebooks (2mark)**

Practices to draw the important diagrams of :-microsporogenesis megasporogenesis ,post fertilization events in flowers and diagrams of ch-2.(Remember the labelled parts of respective diagrams).

B. In scrapbook (4marks)

Draw neat and clean diagram of 7 celled and 8 nucleated structure of female gametophyte.

*Material Required- Thread, pulses, colour, Fevicol and beads.

C. Project File (4 marks)

1. Contraceptive methods:-choice challenges opportunities and Trends.[Roll no -1-3]
2. A "IUDs is shaping the field of contraceptive research" [Roll no 4-7]
3. Emasculation and bagging techniques in the field of Crop improvement.[Roll no -8-12]

Paste related pictures to the respective project file

Mathematics

(A) Solve the following Question in your Holiday home work notebook.

2 marks

i). If matrix have 28 elements what are the possible orders it can have? What if it has 13 elements?.

ii). Find the value of x if

$$[(x \ 1)]_{1 \times 3} \begin{bmatrix} 1 & 3 & 2 \\ 2 & 5 & 1 \\ 15 & 3 & 2 \end{bmatrix}_{3 \times 3} \begin{bmatrix} 1 \\ 2 \\ x \end{bmatrix}_{3 \times 1} = O.$$

iii). Find non-zero values of x satisfying the matrix equation

$$x \begin{bmatrix} 2x & 2 \\ 3 & x \end{bmatrix} + 2 \begin{bmatrix} 8 & 5x \\ 4 & 4x \end{bmatrix} = 2 \begin{bmatrix} x^2 + 8 & 24 \\ 10 & 6x \end{bmatrix}.$$

iv). Area of a triangle with vertices $(k, 0)$, $(1, 1)$ and $(0, 3)$ is 5 unit. Find the value (s) of k . 20. If A is a v). Square matrix of order 3 and $|A| = -2$, find the value of $|-3A|$.

vi). If $A = 2B$ where A and B are of square matrices of order 3×3 and $|B| = 5$. What is $|A|$?

vii). What is the condition that a system of equation $AX = B$ has no solution.

viii). Find the area of the triangle with vertices $(0, 0)$, $(6, 0)$ and $(4, 3)$.

ix). Let A be a non-singular square matrix of order 3×3 find $|\text{adj } A|$ if $|A| = 10$.

x). Find the matrix A satisfying the matrix equation:

$$\begin{bmatrix} 2 & 1 \\ 3 & 2 \end{bmatrix} A \begin{bmatrix} -3 & 2 \\ 5 & -3 \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$

xi). Given a square matrix A of order 3×3 such that $|A| = 12$ find the value of $|A \text{ adj } A|$.

xii). Find the value of x such that the points $(0, 2)$, $(1, x)$ and $(3, 1)$ y collinear.

(B) Project work:-

i) Make a project based on matrix and determinants.

4 marks

ii) Make a project based on inverse Trigonometry Function (graphically).

(C) Scrapbook work: Matrix and determinants formula (use colour pen)

2 marks

(D) Do Practice Questions (any ten) of each Chapter from "Together with" matrix, Determinants and inverse trigonometry function in your notebook.

2 marks

PHYSICAL EDUCATION

ACTIVITY: 1

(5 marks)

➤ PRACTICAL FILE WORK:

➤ **Practical-1:** Fitness tests administration. (SAI Khelo India Test)

➤ **Practical-2:** Procedure for Asanas, Benefits & Contraindication for any two asanas for each lifestyle disease.

➤ **Practical-3:** Anyone one IOA recognized Sport/Game of choice. Labelled

➤ diagram of Field & Equipment. Also, mention its Rules, Terminologies & Skills.

ACTIVITY: 2

(5 marks)

➤ Learn five yoga asanas and Make a short video of five asanas and send it to class whats app group